

# **Historic, Archive Document**

Do not assume content reflects current scientific knowledge, policies, or practices.



1,96  
R 31FSm  
Cop. 2

# **WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO**



**U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE**

Collaborating with

**COLORADO STATE UNIVERSITY EXPERIMENT STATION  
STATE ENGINEER of COLORADO  
and STATE ENGINEER of NEW MEXICO**

AS OF  
**FEB. 1, 1974**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

## TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

*Cover Photo: Snow Surveyors near Ship Creek,  
Alaska snow course.*

## PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, Western Regional Technical Service Center, Room 209, 511 N. W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	204 E. 5th. Ave., Room 217, Anchorage, Alaska 99501
Arizona	6029 Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1218 S. W. Washington St., Portland, Oregon 97205
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82601

## PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P. O. Box 388, Sacramento, California 95802 --- and for British Columbia by the Department of Lands, Forests and Water Resources, Water Resources Service, Parliament Building, Victoria, British Columbia



# **WATER SUPPLY OUTLOOK FOR COLORADO AND NEW MEXICO**

and  
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

*Issued by*

**KENNETH E. GRANT**

ADMINISTRATOR  
SOIL CONSERVATION SERVICE  
WASHINGTON, D.C.

|||||

*Released by*

**M. D. BURDICK**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
DENVER, COLORADO

**MARION E. STRONG**

STATE CONSERVATIONIST  
SOIL CONSERVATION SERVICE  
ALBUQUERQUE, NEW MEXICO

*In Cooperation with*

**JOHN PATRICK JORDAN**

DIRECTOR  
C S U  
EXPERIMENT STATION

**S. E. REYNOLDS**

STATE ENGINEER  
STATE OF NEW MEXICO

**C. J. KUIPER**

STATE ENGINEER  
STATE OF COLORADO

|||||

*Report prepared by*

**JACK N. WASHICHEK, Snow Survey Supervisor**

and

**RONALD E. MORELAND, Assistant Snow Survey Supervisor**

SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217



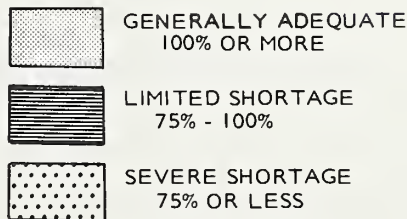
# TABLE OF CONTENTS

## WATER SUPPLY OUTLOOK BY MAJOR WATERSHED AREAS

WATERSHED I	<p>– SOUTH PLATTE RIVER WATERSHED</p> <p>Describes water supply conditions in Fort Collins, Big Thompson, Longmont, Boulder Valley, Jefferson, Teller-Park, Douglas County, Morgan, Kiowa, West Arapahoe, West Adams, East Adams, Platte Valley, Southeast Weld, and West Greeley Soil Conservation Districts.</p>
WATERSHED II	<p>– ARKANSAS RIVER WATERSHED</p> <p>Describes water supply conditions in Lake County, Upper Arkansas, Fremont, Custer County Divide, Fountain Valley, Black Squirrel, Horse-Rush Creek, Central Colorado, Turkey Creek, Pueblo, Bessemer, Olney Boone, Cheyenne, Upper Huerfano, Stonewall, Spanish Peaks, Purgatoire, Branson Trinchera, Western Baca, Southeastern Baca, Two Buttes, Bent, Timpas, Northeast Prowers, Prowers, Kiowa County, West Otero, East Otero, and Big Sandy Soil Conservation Districts.</p>
WATERSHED III	<p>– RIO GRANDE WATERSHED (COLORADO)</p> <p>Describes water supply conditions in Rio Grande, Center, Conejos, Mosca Hooper, Mt. Blanca, Sanchez, and Culebra Soil Conservation Districts.</p>
WATERSHED IV	<p>– RIO GRANDE WATERSHED (NEW MEXICO)</p> <p>Describes water supply conditions in Upper Chama, East Rio Arriba, Taos, Lindrith, Jemez, Santa Fe - Pojoaque, Sandoval, Tijeras, Cuba, and Edgewood Soil Conservation Districts.</p>
WATERSHED V	<p>– DOLORES, SAN JUAN, AND ANIMAS RIVERS WATERSHED</p> <p>Describes water supply conditions in San Miguel Basin. Dove Creek, Dolores, Mancos, LaPlata, Pine River, San Juan, San Miguel Basin, and Glade Park Soil Conservation Districts.</p>
WATERSHED VI	<p>– GUNNISON RIVER WATERSHED</p> <p>Describes water supply conditions in Delta, Gunnison, Cimarron, Shavano, and Uncompahgre Soil Conservation Districts.</p>
WATERSHED VII	<p>– COLORADO RIVER WATERSHED</p> <p>Describes water supply conditions in DeBeque, Plateau Valley, Lower Grand Valley, Bookcliff, Eagle County, Middle Park, Glade Park, Upper Grand Valley, South Side, and Mt. Sopris Soil Conservation Districts.</p>
WATERSHED VIII	<p>– YAMPA, WHITE AND NORTH PLATTE RIVERS WATERSHED</p> <p>Describes water supply conditions in Yampa, Moffat, West Routt, East Routt, North Park, White River, and Douglas Creek Soil Conservation Districts.</p>
WATERSHED IX	<p>– LOWER SOUTH PLATTE RIVER WATERSHED</p> <p>Describes water supply conditions in Sedgwick, South Platte, Haxton, Peetz, Padroni, Morgan, Rock Creek, and Yuma Soil Conservation Districts.</p>
APPENDIX I	<p>– SNOW SURVEY MEASUREMENTS</p>
APPENDIX II	<p>– SOIL MOISTURE MEASUREMENTS</p>

# WATER SUPPLY OUTLOOK

as of  
February 1, 1974



The map on this page indicates the most probable water supply as of the date of this report. Estimates assume average conditions of snow fall, precipitation and other factors from this date to the end of the forecast period. As the season progresses accuracy of estimates improve. In addition to expected streamflow, reservoir storage, soil moisture in irrigated areas, and other factors are considered in estimating water supply. Estimates apply to irrigated areas along the main streams and may not indicate conditions on small tributaries.



# WATER SUPPLY CONDITIONS

as of  
FEBRUARY 1, 1974

SNOWFALL STARTED LATE IN BOTH STATES BUT DECEMBER AND SUBSEQUENT STORMS HAVE STARTED AN EXCELLENT SNOWPACK. PRACTICALLY ALL BASINS IN BOTH STATES HAVE ABOVE AVERAGE SNOWFALL. NEW AVERAGES WERE COMPUTED THIS YEAR. THE NEW NORMALS ARE BASED ON THE 1958-72 PERIOD. THIS BRINGS ALL HYDROLOGIC DATA INTO CURRENT PERIODS. MOUNTAIN SOILS CONTAIN NEAR NORMAL SOIL MOISTURE.



A MAJOR STORM NETWORK STARTED LATE IN DECEMBER AND HAS PRODUCED ABOVE AVERAGE SNOWPACK. THE CENTRAL NORTHERN SECTION OF COLORADO HAS THE HIGHEST SNOW WITH UP TO 150 PERCENT OF NORMAL. THE COLORADO BASIN HAS 124 PERCENT, RIO GRANDE 137 PERCENT, THE ANIMAS 100 PERCENT, AND THE SOUTH PLATTE 117 PERCENT. IF SNOWFALL REMAINS AT LEAST NORMAL FOR THE REMAINDER OF THE YEAR, WATER SUPPLIES SHOULD BE EXCELLENT. CARRY-OVER STORAGE IN THE STATE'S MANY RESERVOIRS IS GOOD.



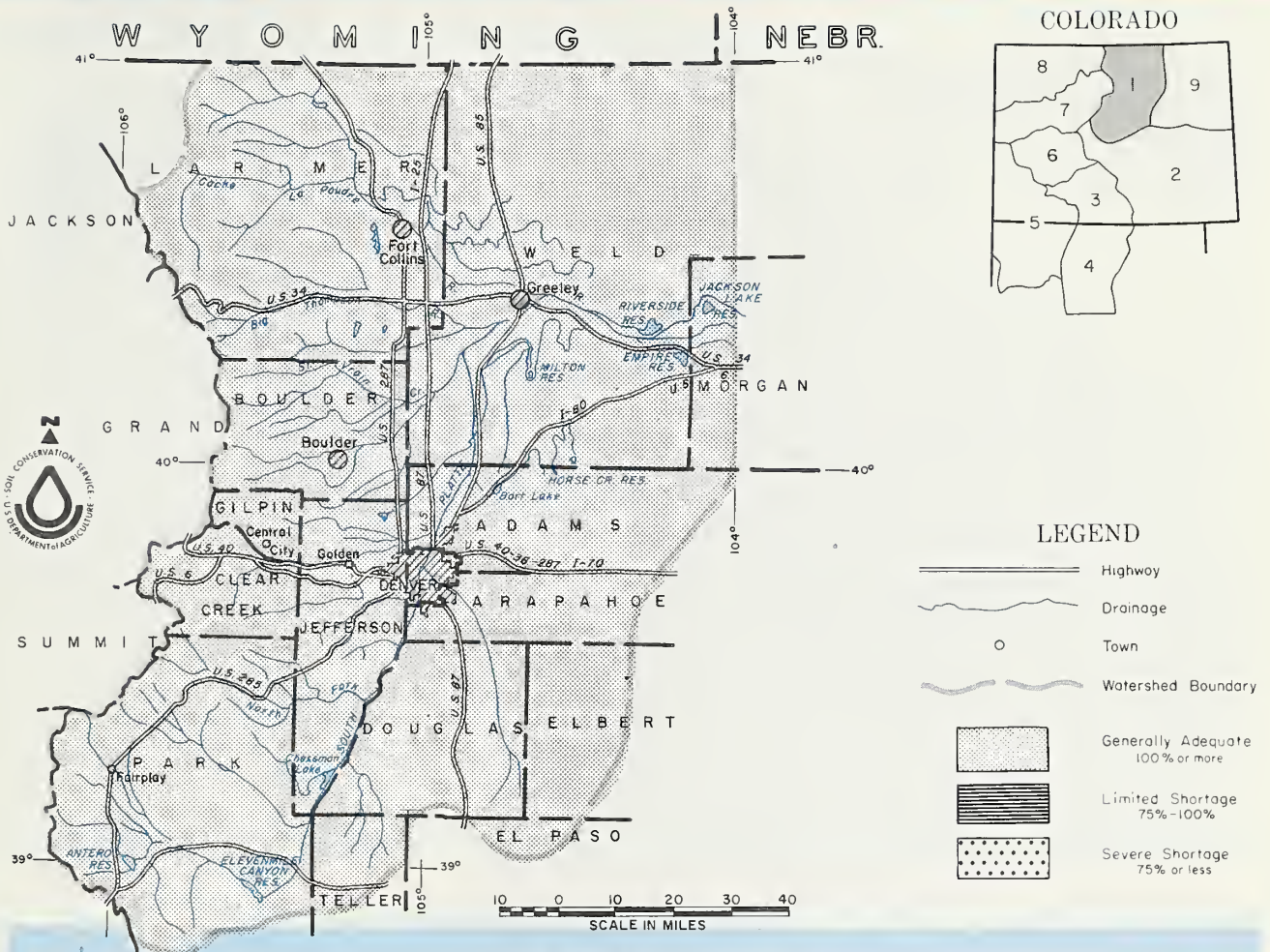
ALL SNOW DRAINAGES IN NEW MEXICO ARE REPORTING ABOVE AVERAGE SNOWFALL. A SERIES OF STORMS SWEEPED THROUGH THE LOWER PORTION OF THE UNITED STATES DEPOSITING A LARGE AMOUNT OF SNOW IN ITS PATH. EVEN THE LOW ELEVATION AREAS HAVE A LOT OF SNOW ON THE GROUND. IN THE WAKE OF LAST YEAR'S RECORD SNOWPACK, THIS COULD BE AN EXCELLENT WATER YEAR. MAINSTEM OF RIO GRANDE HAS SLIGHTLY LESS SNOW THAN LAST YEAR, BUT STILL IS CONSIDERABLY ABOVE THE 1958-72 AVERAGE. RESERVOIR STORAGE IS EXCELLENT.



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of  
February 1, 1974

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



THE SNOWPACK ON THE UPPER SOUTH PLATTE DRAINAGE IS ABOVE NORMAL EXCEPT ON THE ST. VRAIN AND HEADWATERS OF THE MAINSTEM. SNOW IN THESE TWO AREAS IS BELOW NORMAL. CARRY-OVER STORAGE IS 112 PERCENT OF NORMAL AND WILL PROVIDE GOOD SUPPLEMENTAL SUPPLIES. VALLEY SOILS ARE IN GOOD CONDITION. MOUNTAIN SOILS ARE ABOUT NORMAL.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. O. BURCKO --- STATE CONSERVATIONIST   D. W. GILLASPIE --- AREA CONSERVATIONIST   RONALD A. MOSS --- AREA CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO   STERLING, COLORADO   LA JUNTA, COLORADO

## STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1974			

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Big Thompson	5	116	123
Boulder	3	123	117
Cache La Poudre	9	116	132
Clear Creek	6	120	116
Saint Vrain	2	71	102
South Platte	7	82	89

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Antero	33.0	15.9	15.9	13.8
Barr Lake	32.2	24.1	27.4	20.9
Black Hollow	8.0	4.5	4.3	3.8
Boyd Lake	44.0	45.8	37.5	37.2
Cache La Poudre	9.5	7.2	7.8	7.6
Carter Lake	108.9	82.9	83.7	77.3
Chambers Lake	8.8	3.1	3.8	2.9
Cheeseman	79.0	52.5	43.4	56.1
Cobb Lake	34.3	19.2	20.9	15.1
Eleven Mile	97.8	97.8	93.0	87.2
Fossil Creek	11.6	7.4	8.8	6.8
Gross	43.1	28.6	23.6	28.9

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Bear Creek	Exc.	Avg.
Coal Creek	Exc.	Avg.
Deer Creek	Avg.	Avg.
North Fork of South Platte	Avg.	Avg.
North Fork of Cache La Poudre	Exc.	Avg.
Ralston Creek	Avg.	Avg.
Rock Creek	Avg.	Avg.

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Big Thompson	3	82	74
Boulder	1	100	82
Cache La Poudre	2	110	100
Clear Creek	2	96	98
Saint Vrain	2	95	70
South Platte	2	100	117

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Halligan	6.4	5.8	4.5	3.3
Horsetooth	143.5	106.6	84.5	85.5
Lake Loveland	14.3	10.1	9.4	8.8
Lone Tree	9.2	8.3	8.2	6.4
Mariano	5.4	5.0	5.2	4.8
Marshall	10.3	---	3.0	3.7
Marston	18.0	15.9	14.8	14.4
Milton	24.4	15.0	13.3	12.6
Standley	18.5	---	18.1	15.2
Terry Lake	42.0	5.1	5.8	4.7
Union	12.7	12.7	10.8	9.9
Windsor	18.6	10.2	12.0	10.1

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE ARKANSAS RIVER WATERSHED IN COLORADO

as of  
February 1, 1974

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
**CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO**



## YOUR WATER SUPPLY

FEBRUARY 1 SNOWPACK IN THE ARKANSAS BASIN IS ABOVE THE 1958-72 AVERAGE RANGING FROM 111 PERCENT ON THE PURGATOIRE TO 205 PERCENT ON THE CUCHARAS. THE MAIN-STEM IS 127 PERCENT OF AVERAGE. STREAMFLOW FOR THE SUMMER SEASON SHOULD BE AVERAGE IF AVERAGE SNOWFALL CONTINUES DURING FEBRUARY, MARCH, APRIL AND MAY. SOIL MOISTURE IN THE MOUNTAIN SOILS VARY FROM 7.5 TO 113 PERCENT. RESERVOIR STORAGE IN ALL RESERVOIRS EXCEPT TURQUOISE IS 155 PERCENT OF LAST YEAR BUT ONLY 53 PERCENT OF THE 1958-72 AVERAGE. TURQUOISE CONTAINS 130,000 ACRE FEET COMPARED TO 68,600 LAST YEAR.

This report prepared by

JACK N. WASHICHEK and RONALO E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. O. BURDICK - DISTRICT CONSERVATIONIST R. L. PORTER - AREA CONSERVATIONIST DONALD A. MOSS - AREA CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO ALAMOSA, COLORADO LA JUNTA, COLORADO



# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1974			

(1) Observed flow plus change in Clear Creek, Twin Lakes and Turquoise Reservoirs minus diversions through Bush Ivanhoe, Boustead, Divide, Twin Lakes and Homestake Tunnels and Ewing, Front Pass, Wurtz and Columbine ditches.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Arkansas	11	111	127
Cucharas	3	134	205
Purgatoire	1	53	111

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Apishapa	Avg.	Fair
Fountain Creek	Avg.	Fair
Grape Creek	Avg.	Fair
Hardscrabble Creek	Avg.	Fair
Huerfano	Avg.	Fair
Monument Creek	Avg.	Fair

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Arkansas	3	101	113
Cucharas and Purgatoire	2	79	75

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Adobe Creek	61.6	0.0	0.0	17.0
Clear Creek	11.4	4.0	5.2	8.1
Cucharas	40.0	5.4	0.0	2.8
Great Plains	150.0	26.1	13.5	49.3
Horse Creek	26.9	0.0	0.0	6.2

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
John Martin	353.9	14.0	11.9	85.0
Meredith	41.9	19.5	14.6	9.5
Model	15.0	0.4	0.0	3.0
Turquoise	130.0	68.6	48.3	---
Twin Lakes	57.9	40.0	25.0	25.6

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



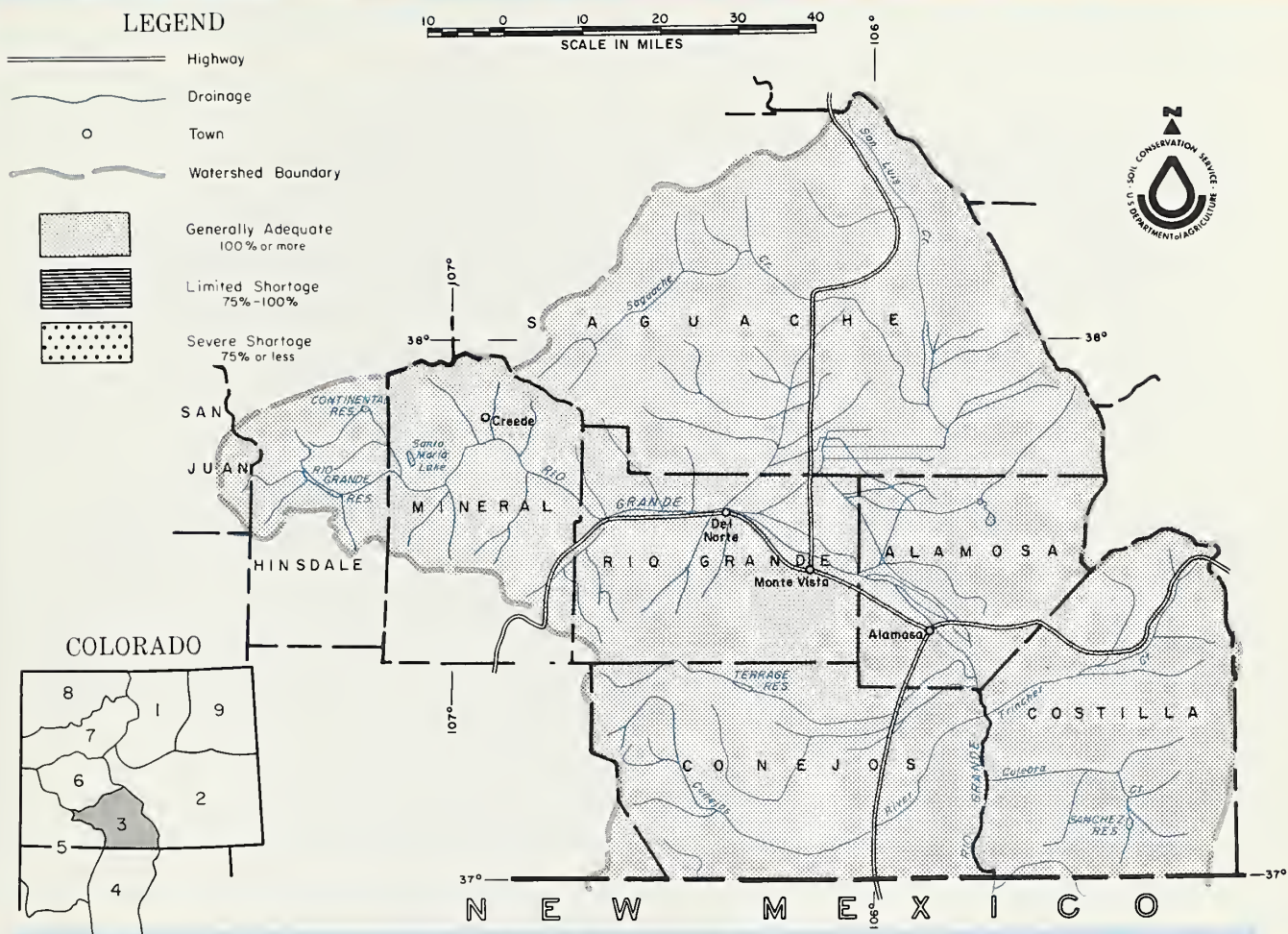
# FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE UPPER RIO GRANDE WATERSHED IN COLORADO

as of  
February 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

SNOWPACK ON THE RIO GRANDE IS AGAIN ABOVE NORMAL. IT IS NOT AS HIGH AS LAST YEAR, HOWEVER, SHOULD PROVIDE ADEQUATE WATER IF SNOW CONTINUES TO FALL. CARRY-OVER STORAGE IS NEARLY TWICE NORMAL AND 258 PERCENT OF LAST YEAR. VALLEY SOIL MOISTURE IS REPORTED AS FAIR. MOUNTAIN SOIL MOISTURE IS AVERAGE.

This report prepared by

JACK N. WASHICHEK and RONALD E. MDRELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. D. BURDICK --- STATE CONSERVATIONIST  
R. L. PORTER --- AREA CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO ALAMOSA, COLORADO

## STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>†</sup>
No numerical forecasts issued until March 1, 1974			

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Saguache Creek	Exc.	Avg.
Sangre de Cristo Creek	Exc.	Avg.
Trinchera Creek	Exc.	Avg.

(1) Observed flow plus change in storage in Platoro Reservoir. (2) Observed flow plus change in storage in Sanchez Reservoir. (3) Observed flow plus change in storage in Santa Maria, Rio Grande and Continental Reservoirs.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>†</sup>
Alamosa	2	72	126
Conejos	3	92	116
Culebra	5	96	145
Rio Grande	11	69	99

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>†</sup>
Alamosa	1	102	89
Conejos	1	102	89
Culebra	1	93	84
Rio Grande	3	86	79

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Continental	26.7	1.4	4.5	4.7
Platoro	60.0	35.4	2.9	8.6
Rio Grande	45.8	28.7	17.2	19.2

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>†</sup>
Sanchez	103.2	19.5	5.0	13.3
Santa Maria	45.0	7.6	4.5	5.9
Terrace	17.7	8.8	5.1	5.3

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL

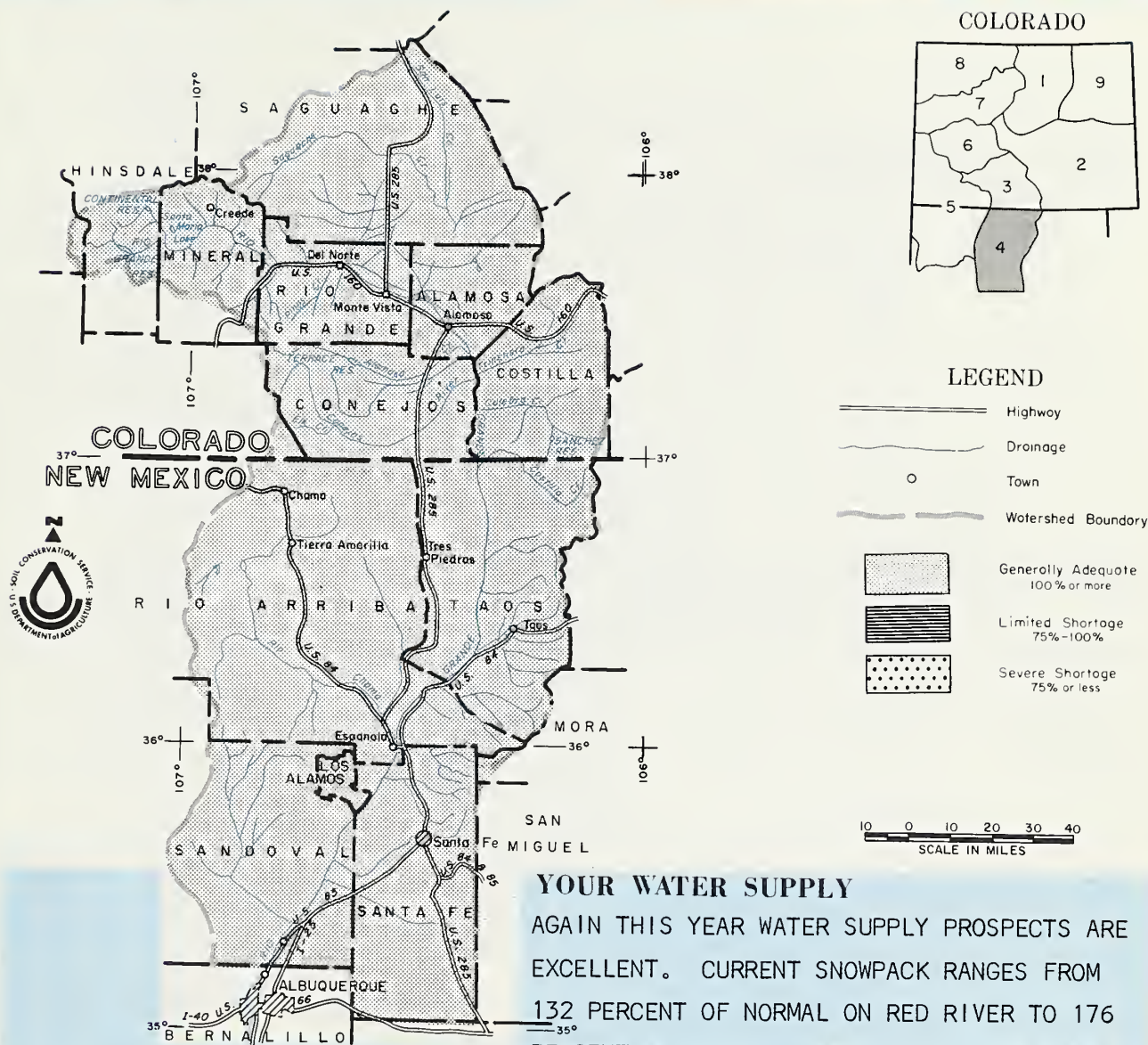


# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE RIO GRANDE WATERSHED IN NEW MEXICO

as of

February 1, 1974

U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



LAST YEAR'S RECORD SNOWPACK IS STILL GOOD. SOIL MOISTURE IS LISTED AS FAIR TO GOOD EXCEPT IN THE SOUTHERN PART WHERE SOILS ARE DRY.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

MARION E. STRONG---STATE CONSERVATIONIST  
JAY L. RAMSAY---AREA CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
ALBUQUERQUE, NEW MEXICO  
SANTA FE, NEW MEXICO

# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
No numerical forecasts issued until March 1, 1974			

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Embudo	Exc.	Exc.
Jemez River	Exc.	Exc.
Mora River	Exc.	Exc.
Nambe Creek	Exc.	Exc.
Rio Ojo Caliente	Exc.	Exc.
Rio Pueblo de Taos	Exc.	Exc.
Santa Fe Creek	Exc.	Exc.

The forecast of the Rio Grande at San Marcial is % of the Average used by the Elephant Butte Irrigation District. (1) Observed flow plus change in Costilla Reservoir. (2) Observed flow plus change in storage in El Vado and Abiquiu Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Pecos	1	100	176
Rio Chama	4	101	144
Rio Grande, N.M.	11	93	137
Red River	2	81	132

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Pecos	2	100	86
Rio Chama	2	173	139
Rio Grande	4	80	106
Red River	1	94	71

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Alamogordo	111	95	85	80
Caballo	344	42	69	50
Conchas	273	178	141	185

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Elephant Butte	2195	864	334	442
El Vado	195	122	22	2
McMillan-Avalon	38	11	33	19

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



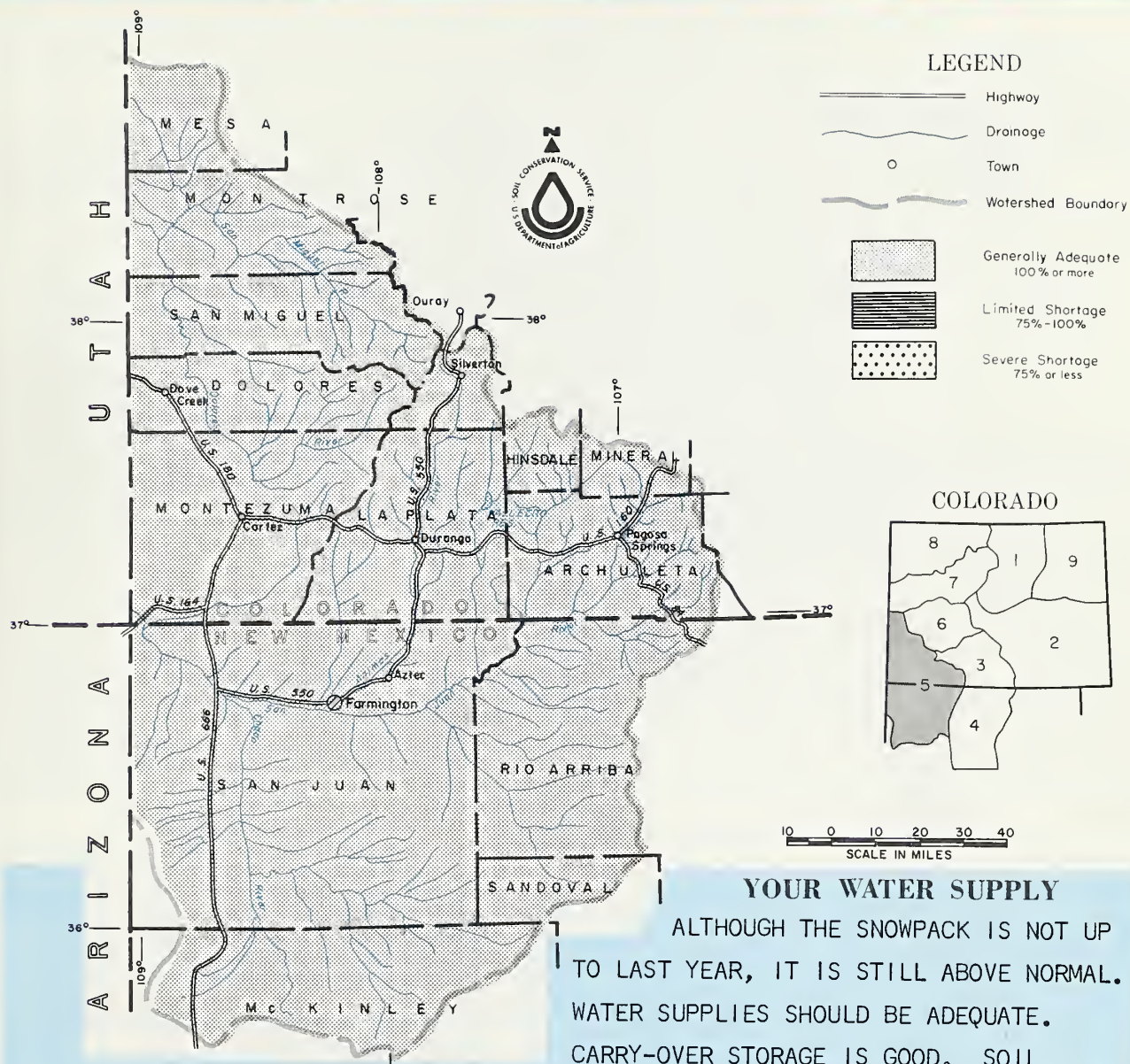
# FIRST CLASS MAIL



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE SAN MIGUEL, DOLORES, ANIMAS, AND SAN JUAN WATERSHEDS IN COLORADO AND NEW MEXICO

as of  
February 1, 1974

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



MOISTURE IN THE IRRIGATED AREAS IS REPORTED AS EXCELLENT. MOUNTAIN SOILS ARE NEAR NORMAL.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. O. BUROICK — STATE CONSERVATIONIST  
DENVER, COLORADO  
MARION E. STRONG — STATE CONSERVATIONIST  
ALBUQUERQUE, NEW MEXICO  
U. S. DEPARTMENT OF AGRICULTURE — SOIL CONSERVATION SERVICE  
R. L. PORTER — AREA CONSERVATIONIST  
ALAMOSA, COLORADO  
JAY L. RAMSAY — AREA CONSERVATIONIST  
SANTA FE, NEW MEXICO



# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average +
No numerical forecasts issued until March 1, 1974			

(1) Observed flow plus change in storage in Vallecito Reservoir.

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Florida	Exc.	Avg.
Mancos	Exc.	Avg.
San Miguel	Exc.	Avg.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Animas	8	69	100
Dolores	5	99	138
San Juan	5	85	120

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Animas	3	85	97
Dolores	3	85	97
San Juan	3	85	97

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Groundhog	22	--	7	9
Jackson Gulch	10	--	10	4
Lemon	40	19	21	19
Navajo	1696	1041	946	577
Vallecito	126	70	74	53

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL

# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE GUNNISON RIVER WATERSHED IN COLORADO

as of  
February 1, 1974

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



THE FEBRUARY 1 SNOWPACK IS ABOVE AVERAGE IN THE GUNNISON RIVER BASIN RANGING FROM 109 PERCENT ON SURFACE CREEK TO 132 PERCENT ON THE UNCOMPAHGRE. THIS SUMMER'S STREAMFLOW SHOULD BE AVERAGE OR ABOVE IF AVERAGE SNOWFALL CONTINUES DURING THE REMAINDER OF THE SEASON. RESERVOIR STORAGE IS EXCELLENT WITH BLUE MESA CONTAINING 468,000 ACRE FEET COMPARED TO 336,000 LAST YEAR, AND TAYLOR WITH 63,000 ACRE FEET COMPARED TO LAST YEAR'S 39,000. MORROW POINT IS THE SAME AS LAST YEAR'S.

*This report prepared by*

JACK N. WASHICHEK and RONALO E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

*Issued by*

M. O. BURDICK—STATE CONSERVATIONIST      DUANE L. JOHNSON—AREA CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO      GLENWOOD SPRINGS, COLORADO

# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average +
No numerical forecasts issued until March 1, 1974			

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
North Fork of Gunnison Taylor	Exc.	Avg.
	Exc.	Avg.

(1) Observed flow plus change in storage in Taylor Reservoir. (2) Observed flow plus change in storage in Blue Mesa, Morrow Point and Taylor Reservoirs.  
(3) Observed flow plus change in storage in Paonia Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average +
Gunnison	12	105	123
Surface Creek	3	88	109
Uncompahgre	3	100	132

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average +
Gunnison	1	118	130
Surface Creek	1	92	110
Uncompahgre	2	92	104

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Blue Mesa	830	465	336	491
Morrow Point	121	115	116	100

## RESERVOIR STORAGE (Thousand Ac. Ft.)

END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average +
Silver Jack	14	5	5	--
Taylor	106	63	39	63

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217  
OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$ 300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL



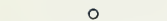



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE COLORADO RIVER WATERSHED IN COLORADO



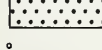
as of  
February 1, 1974

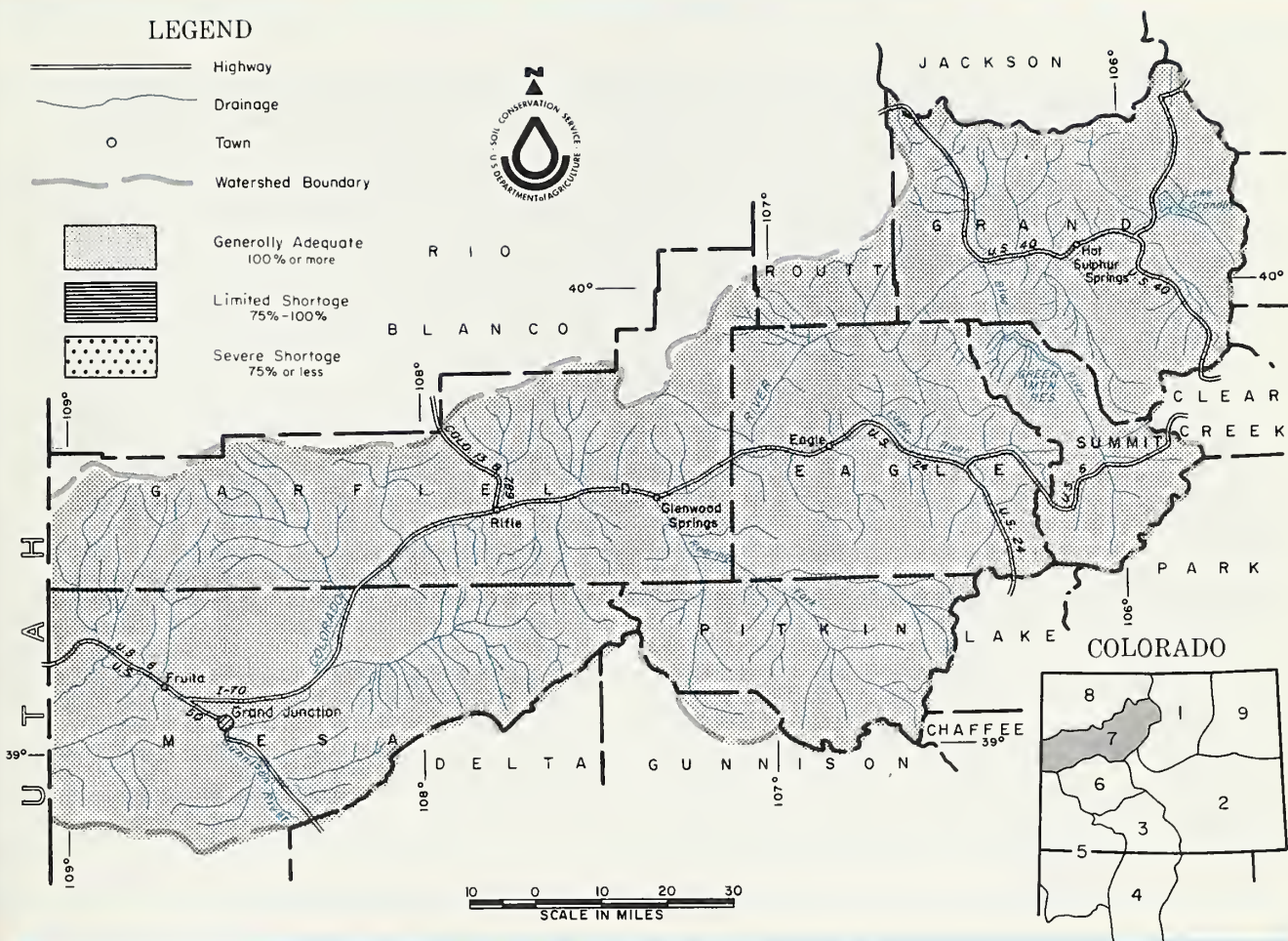
**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO

## LEGEND

-  Highway
-  Drainage
-  Town
-  Watershed Boundary



-  Generally Adequate  
100% or more
-  Limited Shortage  
75%-100%
-  Severe Shortage  
75% or less



## YOUR WATER SUPPLY

FEBRUARY 1 SNOWPACK IN THE COLORADO RIVER BASIN IS EXCELLENT THIS YEAR RANGING FROM 108 PERCENT OF THE 1958-72 AVERAGE ON PLATEAU CREEK TO 147 PERCENT ON THE WILLIAMS FORK. MOST TRIBUTARIES HAVE BETTER SNOWPACK THAN LAST YEAR'S FEBRUARY 1 READING. STREAMFLOW FOR THIS SUMMER WILL BE ABOVE AVERAGE IF SNOWFALL IS AVERAGE FOR THE REMAINDER OF THE SEASON. RESERVOIR STORAGE IS EXCELLENT BEING 118 PERCENT OF LAST YEAR AND 138 PERCENT OF THE 1958-72 AVERAGE. MOUNTAIN SOIL MOISTURE CONDITIONS ARE NEAR NORMAL.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. O. BOROICK  
STATE CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO

OUANE L. JOHNSON  
AREA CONSERVATIONIST  
GLENWOOD SPRINGS, COLORADO

## STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
No numerical forecasts issued until March 1, 1974			

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Brush Creek	Exc.	Avg.
Eagle River	Exc.	Avg.
Gypsum Creek	Exc.	Avg.

(1) Observed flow plus diversions through Roberts Tunnel and change in storage in Dillon Reservoir. (2) Observed flow corrected for change in storage in Lake Granby as furnished by U.S.B.R. and diversions by Adams Tunnel and Grand River Ditch. (3) Observed flow plus the changes as indicated in (1), (2) and (5) plus Moffat Ditch and change in Homestake, Williams Fork, Green Mt. and Willow Creek Reservoirs. (4) Observed flow plus diversions through Divide and Twin Lakes Tunnels plus change in storage in Ruedi Reservoir. (5) Observed flow plus diversions through August P. Gumlick Tunnel. (6) Observed flow plus the changes as indicated in (3) and (5).

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Blue River	8	120	119
Colorado	20	119	124
Plateau	3	90	108
Roaring Fork	8	119	127
Williams Fork	3	121	147
Willow	2	150	138

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Blue River	1	103	118
Colorado	5	94	100
Roaring Fork	1	56	80
Willow	2	96	108

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Dillon	254	239	219	234
Granby	466	403	353	255
Green Mountain	147	84	87	77
Homestake	43	31	21	20

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Ruedi	101	70	70	70
Williams Fork	97	51	61	34
Willow Creek	9	7	7	6
Vega	32	13	13	10

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



# FIRST CLASS MAIL



# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE YAMPA, WHITE, AND NORTH PLATTE RIVER WATERSHEDS IN COLORADO

as of  
February 1, 1974

**U. S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE**  
COLORADO EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

THE FEBRUARY 1 SNOWPACK IS MUCH ABOVE THE 1958-72 AVERAGE IN ALL THE BASINS RANGING FROM 110 PERCENT ON THE WHITE RIVER TO 145 PERCENT ON THE LARAMIE RIVER. SNOWPACK IS ABOVE LAST YEAR'S ON ALL BASINS EXCEPT ON THE WHITE RIVER WHICH IS THE SAME. WITH AVERAGE SNOWFALL THE REMAINDER OF THE SEASON, STREAMFLOW SHOULD BE ABOVE AVERAGE. SOIL MOISTURE CONDITIONS IN THE MOUNTAINS ARE ABOVE AVERAGE. SOIL MOISTURE IN THE VALLEY IS REPORTED AS GOOD.

*This report prepared by*

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

*Issued by*

M. O. BURDICK -- STATE CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO

QUANE L. JOHNSON -- AREA CONSERVATIONIST  
GLENWOOD SPRINGS, COLORADO



## STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
No numerical forecasts issued until March 1, 1974			

## WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
Canadian River	Exc.	Fair
Hunt Creek	Exc.	Fair
Illinois River	Exc.	Fair
Michigan River	Exc.	Fair
Oak Creek	Exc.	Fair
Trout Creek	Exc.	Fair

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Elk	2	141	125
Laramie	2	132	145
North Platte	5	117	132
White	2	100	110
Yampa	5	125	119

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Laramie	2	110	100
North Platte	2	96	108
Yampa	1	71	102

+ 1958-1972 period.

Return if not delivered  
 UNITED STATES DEPARTMENT OF AGRICULTURE  
 SOIL CONSERVATION SERVICE  
 SNOW SURVEY UNIT  
 P.O. BOX 17107  
 DENVER, COLORADO 80217  
 OFFICIAL BUSINESS  
 PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
 U. S. DEPARTMENT OF  
 AGRICULTURE  
 AGR-101



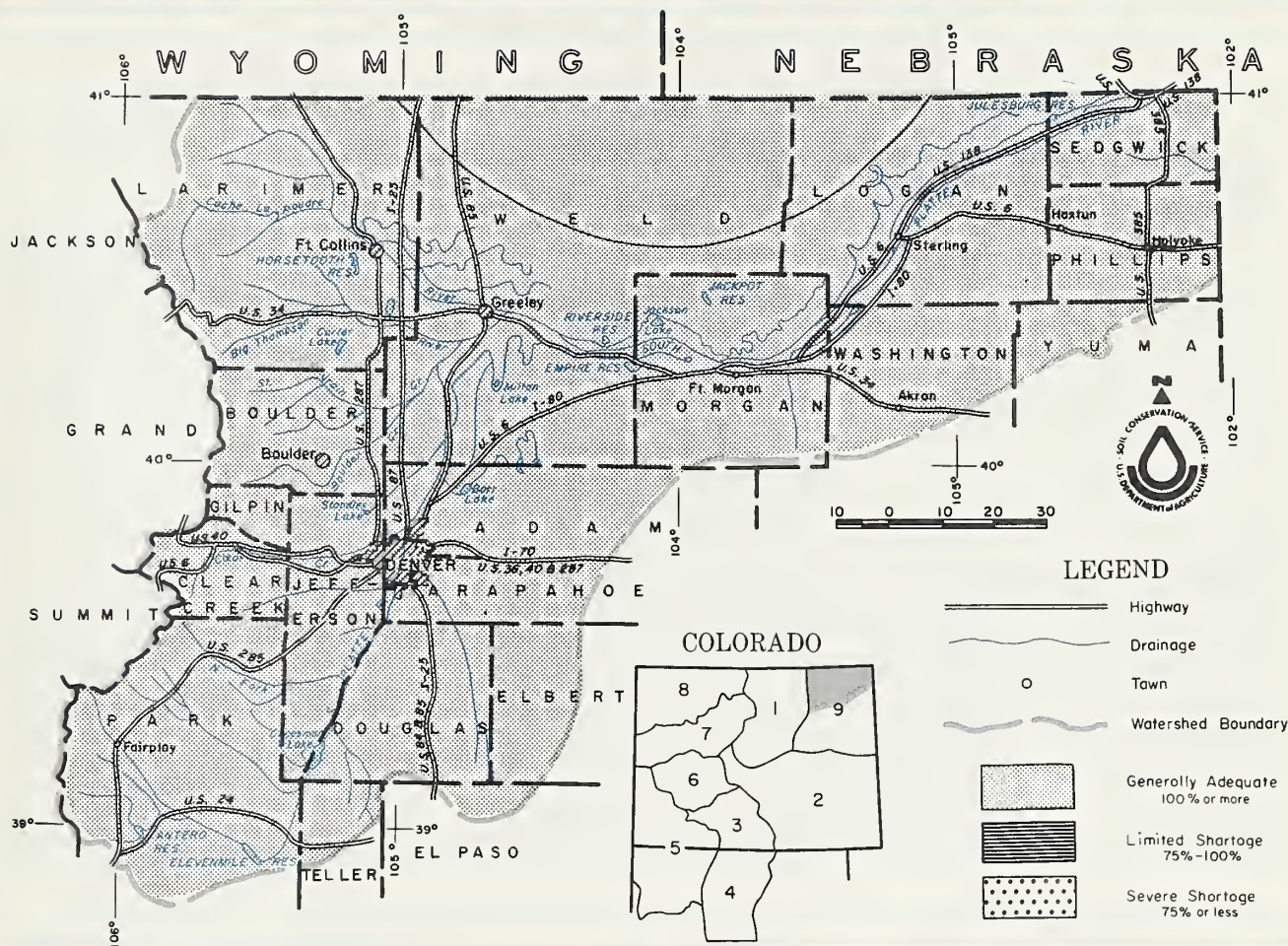
# FIRST CLASS MAIL

# WATER SUPPLY OUTLOOK FOR THE SOIL CONSERVATION DISTRICTS IN THE LOWER SOUTH PLATTE RIVER WATERSHED IN COLORADO

as of

February 1, 1974

U.S. DEPARTMENT OF AGRICULTURE · SOIL CONSERVATION SERVICE  
CSU EXPERIMENT STATION, STATE ENGINEERS OF COLORADO AND NEW MEXICO



## YOUR WATER SUPPLY

THE SNOWPACK ON THE UPPER PLATTE AND TRIBUTARIES IS ABOVE NORMAL EXCEPT IN THE SOUTHERN END. HERE SNOW IS SLIGHTLY DEFICIENT. THE BIGGEST SNOWPACK IS ON CLEAR CREEK AT 132 PERCENT OF NORMAL TO A LOW ON UPPER SOUTH PLATTE AT 89 PERCENT. CARRY-OVER STORAGE IS NEAR NORMAL. SOIL MOISTURE IS REPORTED AS GOOD IN THE IRRIGATED AREAS.

This report prepared by

JACK N. WASHICHEK and RONALD E. MORELAND  
SNOW SURVEY UNIT, SOIL CONSERVATION SERVICE  
DENVER, COLORADO

Issued by

M. D. BOROICK, STATE CONSERVATIONIST  
O. W. GILLASPIE, AREA CONSERVATIONIST  
U. S. DEPARTMENT OF AGRICULTURE - SOIL CONSERVATION SERVICE  
DENVER, COLORADO  
STERLING, COLORADO



# STREAMFLOW FORECASTS (1000 Ac. Ft.)

FORECAST POINT	FORECAST	% of Average	Average <sup>+</sup>
No numerical forecasts issued until March 1, 1974			

# WATER SUPPLY OUTLOOK

Expressed as "Poor, Fair, Average, Excellent" With Respect to Usual Supply.

STREAM or AREA	Flow Period	
	Spring Season	Late Season
South Platte from Greeley to Ft. Morgan	Avg.	Avg.
South Platte from Ft. Morgan to Sterling	Avg.	Avg.
South Platte below Sterling	Avg.	Avg.

(1) Observed flow plus by-pass to power plants. (2) Observed flow minus trans-basin diversions plus municipal and irrigation diversions. (3) Observed flow minus diversion through August P. Gumlick Tunnel. (4) Observed flow plus change in storage in Price Reservoir.

## SUMMARY of SNOW MEASUREMENTS

(COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR'S SNOW WATER AS PERCENT OF	
		Last Year	Average <sup>+</sup>
Big Thompson	5	116	123
Boulder	3	123	117
Cache La Poudre	9	116	132
Clear Creek	6	120	116
Saint Vrain	2	71	102
South Platte	7	82	89

## SOIL MOISTURE

RIVER BASIN	Number of Stations	THIS YEAR'S MOISTURE as PERCENT OF:	
		Last Year	Average <sup>+</sup>
Big Thompson	3	82	74
Boulder	1	100	82
Cache La Poudre	2	110	100
Clear Creek	2	96	98
Saint Vrain	2	95	70
South Platte	2	100	117

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Carter	108.9	82.9	83.7	77.3
Cheeseman	79.0	52.5	43.4	56.1
Eleven Mile	97.8	97.8	93.0	87.2
Empire	37.7	5.3	25.1	26.5
Horsetooth	143.5	106.6	84.5	85.5

## RESERVOIR STORAGE (Thousand Ac. Ft.) END OF MONTH

RESERVOIR	Usable Capacity	Usable Storage		
		This Year	Last Year	Average <sup>+</sup>
Jackson	35.4	24.6	29.5	28.0
Julesburg	28.2	19.8	19.8	20.1
Point of Rocks	70.0	69.8	63.4	53.4
Prewitt	32.8	22.0	15.5	15.9
Riverside	57.5	29.4	49.1	44.6

+ 1958-1972 period.

Return if not delivered  
UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE  
SNOW SURVEY UNIT  
P.O. BOX 17107  
DENVER, COLORADO 80217

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF AGRICULTURE  
AGR-101



# FIRST CLASS MAIL



# APPENDIX I

SNOW COURSE MEASUREMENTS as of February 1, 1974

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-73
NORTH PLATTE BASIN					
<u>Laramie River</u>					
Deadman Hill	1/29	46	13.5	9.2	10.4
McIntyre	NS	--	---	---	---
Roach	1/27	58	17.0	14.0	10.6
<u>North Platte River</u>					
Cameron Pass	1/30	57	20.5	20.7	16.5
Columbine Lodge	1/30	69	19.7	13.1	14.3
Northgate	1/30	23	6.1	5.8	3.8
Park View	1/28	30	7.2	6.9	5.8
Willow Cr. Pass (B)	1/28	36	10.0	7.7	7.7
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Baltimore	1/29	21	5.0	6.0	5.1
Boulder Falls	1/29	33	9.5	7.1	7.1
University Camp	1/29	43	12.5	8.8	10.9
<u>Big Thompson River</u>					
Deer Ridge	1/29	18	4.3	4.3	2.9
Hidden Valley	1/31	31	7.4	6.9	6.4
Lake Irene	1/27	55	15.4	13.3	13.8
Long's Peak	1/30	31	8.3	6.4	6.0
Two Mile	1/29	41	11.1	9.4	8.6
<u>Cache La Poudre</u>					
Bennett Creek	1/30	31	8.6	5.7	5.0
Big South	1/31	2	0.5	1.8	1.4
Cameron Pass	1/30	57	20.5	20.7	16.5
Chambers Lake	1/31	24	8.8	7.6	5.6
Deadman Hill	1/29	46	13.5	9.2	10.4
Hour Glass Lake	1/30	28	7.8	---	3.7
Joe Wright	1/30	56	18.0	16.6	16.1
Lost Lake	1/31	35	10.4	8.6	7.7
Pine Creek	1/29	15	3.0	2.8	1.3
Red Feather	1/29	25	6.6	4.6	4.0
<u>Clear Creek</u>					
Baltimore (B)	1/29	21	5.0	6.0	5.1
Berthoud Falls	1/29	41	11.0	9.2	8.3
Empire	1/29	22	6.0	4.0	4.5
Grizzly Peak (B)	1/30	48	13.5	9.1	10.6
Loveland Lift	1/31	39	10.5	10.0	12.2
Loveland Pass	1/31	41	11.8	9.9	9.0
<u>Saint Vrain River</u>					
Copeland Lake	1/30	14	3.4	3.5	2.8
Ward	1/29	16	3.1	5.6	3.6
Wild Basin	NS	--	---	---	7.2
<u>South Platte River</u>					
Como	2/01	15	3.1	5.7	4.8
Geneva Park	1/28	14	2.3	3.5	2.6
Hoosier Pass	2/01	32	8.6	8.1	8.0
Horseshoe Mt.	2/01	26	6.4	6.5	6.8
Jefferson Creek	2/01	21	4.7	6.3	5.9
Mosquito	2/01	23	5.2	6.3	6.8
Trout Creek Pass	2/01	21	4.0	5.2	3.5
ARKANSAS BASIN					
<u>Arkansas River</u>					
Bigelow Divide	1/29	34	8.1	4.7	4.1
Cooper Hill (B)	1/30	33	9.0	6.4	6.9
East Fork	1/29	27	6.8	5.7	6.0
Four Mile Park	1/29	20	3.5	3.9	3.9
Fremont Pass	1/29	42	11.0	9.6	9.8
Garfield	1/30	36	10.8	11.0	8.5
Hermit Lake	1/28	33	9.0	9.8	5.8
Monarch Pass	1/30	45	12.9	11.8	10.3
Tennessee Pass	1/30	27	5.9	6.9	6.5
Twin Lakes Tunnel	1/24	30	7.9	6.1	6.0
Westcliffe	1/28	30	7.4	7.2	5.1

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-73
<u>Cucharas River</u>					
Blue Lakes	1/28	20	6.2	4.1	2.3
Cucharas Pass	1/28	34	9.3	7.3	4.5
LaVeta Pass (B)	1/28	37	9.9	7.5	5.6
<u>Purgatorie River</u>					
Bourbon	1/29	25	4.9	9.3	4.4
<b>RIO GRANDE BASIN-COLO</b>					
<u>Alamosa River</u>					
Silver Lakes	1/28	25	4.5	8.6	3.5
Summitville	1/31	51	14.9	18.5	11.9
<u>Conejos River</u>					
Cumbres	1/30	56	17.2	15.1	13.1
LaManga	1/30	54	15.8	16.7	---
Platoro	1/30	45	12.0	16.3	12.5
River Springs	1/25	20	5.6	6.6	4.3
<u>Culebra River</u>					
Brown Cabin	1/28	29	7.1	6.7	4.3
Cottonwood (B)	1/28	25	5.4	6.2	3.9
Culebra	1/25	25	6.3	9.3	5.6
LaVeta Pass	1/28	37	9.9	7.5	5.6
Trinchera (B)	1/29	28	8.2	8.8	6.0
<u>Rio Grande</u>					
Cochetopa Pass	1/28	21	3.9	6.0	3.6
Grayback	1/31	40	11.5	16.0	---
Hiway	1/30	55	16.2	22.4	15.6
Lake Humphrey	1/30	20	3.7	7.3	4.8
Love Lake	1/29	23	4.4	10.0	4.9
Pass Creek	1/30	34	10.0	13.9	8.2
Pool Table	1/29	18	2.8	4.4	5.2
Porcupine	1/29	25	5.3	8.3	8.1
Santa Maria	1/28	18	3.9	4.7	3.3
Upper Rio Grande	1/29	21	4.7	9.3	5.8
Wolf Creek Pass	1/30	63	19.8	23.8	17.4
Wolf Cr. Sum. (B)	1/30	68	20.2	27.6	18.5
<b>RIO GRANDE BASIN-N.M.</b>					
<u>Pecos River</u>					
Panchuela	1/30	17	4.4	4.4	2.5
<u>Rio Chama</u>					
Bateman	1/31	34	8.2	9.0	6.4
Capulin Peak	1/30	22	4.9	5.7	3.5
Chama Divide	1/31	20	4.7	3.9	2.9
Chamita	2/01	32	8.6	7.5	5.5
<u>Rio Grande</u>					
Aspen Grove	NS	--	---	---	4.0
Big Tesuque	1/28	25	6.8	7.0	4.0
Blue Bird Mesa	1/29	16	3.4	4.2	3.5
Cordova	NS	--	---	---	6.2
Elk Cabin	1/28	16	5.6	4.3	2.7
La Cueva	1/29	23	5.2	6.6	---
Hopewell	1/29	50	14.0	11.8	---
Pajarito Peak	1/30	6	1.2	1.8	1.1
Payrole	1/29	28	7.4	7.6	6.1
Quemazon	1/31	26	6.4	7.6	6.1
Rio En Medio	1/28	32	9.0	9.2	6.0
Sandoval	1/31	14	3.5	4.4	3.5
Taos Canyon	1/29	23	5.8	5.2	2.7
Teakettle	1/29	29	6.8	7.9	5.1
Tres Ritos	1/31	21	4.6	6.0	3.3
<u>Rio Hondo</u>					
Twinning	1/31	16	3.1	7.1	7.1
<u>Red River</u>					
Hematite Park	1/28	16	4.0	5.4	2.9
Red River	1/28	18	4.7	5.3	3.7

NOTE: NS - No Survey  
(B) - On Adjacent drainage

# APPENDIX I

SNOW COURSE MEASUREMENTS as of February 1, 1974

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 50-72
SAN JUAN-DOLORES BASIN					
<u>Animas River</u>					
Cascade	1/29	39	9.6	12.7	8.0
Lemon	1/30	30	7.1	10.2	6.0
Mineral Creek	1/29	36	8.7	14.1	9.9
Molas Lake	1/29	38	10.5	10.6	8.7
Purgatory	1/29	47	12.4	20.6	15.4
Red Mountain Pass	1/29	65	18.8	27.8	19.0
Silverton Sub-Sta.	1/29	27	6.9	9.2	5.6
Spud Mountain	1/29	53	14.0	22.8	15.2
<u>Dolores River</u>					
Lizard Head	1/30	48	13.9	14.3	10.4
Lone Cone	1/31	48	13.9	12.7	11.8
Rico	1/30	33	8.5	9.9	5.6
Telluride	1/30	35	7.8	7.6	4.7
Trout Lake	1/30	44	11.9	12.0	8.1
<u>San Juan River</u>					
Chama Divide (B)	1/31	20	4.7	3.9	2.9
Chamita (B)	2/01	32	8.6	7.5	5.5
Upper San Juan	1/30	74	22.9	26.5	19.1
Wolf Cr. Pass (B)	1/30	63	19.8	23.8	17.4
Wolf Cr. Summit	1/30	68	20.2	27.6	18.5
GUNNISON BASIN					
<u>Gunnison River</u>					
Alexander Lake	1/30	53	14.1	16.6	12.7
Blue Mesa	NS			---	---
Butte	1/30	43	11.7	7.7	11.0
Cochetopa Pass (B)	1/28	21	3.9	6.0	3.6
Crested Butte	1/29	48	13.3	8.4	7.4
Keystone	1/29	60	16.7	14.9	13.1
Lake City	1/25	26	6.3	6.3	5.5
Mesa Lakes (B)	1/30	44	11.0	13.0	10.5
McClure Pass	1/29	51	13.3	13.5	11.1
Park Cone	1/30	34	8.3	5.8	6.1
Park Reservoir	1/29	62	16.2	17.1	14.6
Porphyry Creek	1/30	47	13.6	13.2	10.0
Tomichi	1/30	41	11.9	11.3	8.1
<u>Surface Creek</u>					
Alexander Lake	1/30	53	14.1	16.6	12.7
Mesa Lakes (B)	1/30	44	11.0	13.0	10.5
Park Reservoir	1/29	62	16.2	17.1	14.6
<u>Uncompahgre River</u>					
Ironton Park	1/29	50	15.1	11.6	8.0
Red Mountain Pass	1/29	65	18.8	27.8	19.0
Telluride (B)	1/30	35	7.8	7.6	4.7
COLORADO BASIN					
<u>Blue River</u>					
Blue River	2/01	26	6.3	6.0	5.2
Fremont Pass	1/29	42	11.0	9.6	9.8
Frisco	1/30	22	4.9	4.4	4.4
Grizzly Peak	1/30	48	13.5	9.1	10.6
Hoosier Pass (B)	2/01	32	8.6	8.1	8.0
Shrine Pass	1/30	47	13.4	12.0	10.3
Snake River	1/30	28	6.2	4.5	5.2
Summit Ranch	1/29	25	6.0	4.6	5.0

SNOW COURSE	CURRENT INFORMATION			PAST RECORD	
	DATE OF SURVEY	SNOW DEPTH (INCHES)	WATER CONTENT (INCHES)	WATER CONTENT (INCHES)	
				LAST YEAR	AVG. 58-72
<u>Colorado River</u>					
Arrow	1/29	42	11.2	8.7	7.5
Berthoud Pass	1/29	45	11.4	10.0	9.4
Berthoud Summit	1/29	52	14.3	11.3	11.4
Cooper Hill	1/30	33	9.0	6.4	6.9
Fiddler Gulch	NS	--	---	---	9.0
Glenmar Ranch	1/28	31	7.3	6.8	5.1
Gore Pass	1/29	31	7.4	7.4	6.2
Grand Lake	1/30	32	7.8	5.1	4.9
Lake Irene	1/27	55	15.4	13.3	13.8
Lapland	1/28	29	7.9	5.9	6.6
Lulu	NS	--	---	---	---
Lunx Pass	1/29	32	7.7	8.8	7.6
McKenzie Gulch	1/29	28	6.5	5.1	4.1
Middle Fork	1/28	34	9.3	6.8	5.7
Milner	1/29	37	10.0	7.8	10.0
North Inlet	1/27	29	7.0	5.5	5.1
Pando	1/29	26	6.2	6.3	6.0
Phantom Valley	1/29	29	7.0	6.9	6.5
Ranch Creek	1/29	34	8.2	6.8	5.6
Tennessee Pass (B)	1/30	27	5.9	6.9	6.5
Vail Pass	1/30	48	13.3	10.4	10.4
Vasquez	1/30	39	9.8	7.4	7.7
<u>Roaring Fork River</u>					
Aspen	1/28	44	12.8	11.4	10.0
Chapman	NS	--	---	9.6	9.9
Independence Pass	1/24	40	10.1	6.1	9.7
Ivanhoe	1/28	53	14.3	12.3	10.2
Kiln	1/28	42	10.0	8.3	8.3
Last Chance	NS	--	---	7.5	7.2
Lift	1/28	51	13.4	10.2	10.1
McClure Pass	1/29	51	13.3	13.5	11.1
Nast	1/28	28	6.8	5.4	4.3
North Lost Trail	1/29	48	12.8	11.6	10.0
<u>Williams Fork River</u>					
Glenmar Ranch	1/28	31	7.3	6.8	5.1
Jones Pass	1/28	41	12.0	10.0	8.7
Middle Fork	1/28	34	9.3	6.8	5.7
<u>Willow Creek</u>					
Granby	1/28	27	7.1	3.7	4.7
Willow Creek Pass	1/28	36	10.0	7.7	7.7
<u>Plateau Creek</u>					
Mesa Lakes	1/30	44	11.0	13.0	10.5
Park Reservoir	1/29	62	16.2	17.1	14.6
Trickle Divide	1/29	64	17.0	19.3	16.0
YAMPA BASIN					
<u>Elk River</u>					
Clark	NS	--	---	8.2	7.9
Elk River	1/30	56	14.7	10.6	11.4
Hahn's Peak	1/30	49	13.1	9.1	10.8
<u>White River</u>					
Burro Mountain	1/30	44	10.9	13.5	11.5
Rio Blanco	1/29	43	11.7	9.0	9.0
<u>Yampa River</u>					
Bear River	NS	--	---	---	---
Buffalo Pass	1/28	112	34.0	25.2	31.1
Columbine Lodge (B)	1/30	69	19.7	13.1	14.3
Dry Lake	NS	--	---	12.4	12.0
Lynx Pass (B)	1/29	32	7.7	8.8	7.6
Rabbit Ears	1/30	69	19.4	17.1	16.1
Yampa View	1/30	49	13.0	10.9	9.8

NOTE: NS - No Survey  
(B) - On Adjacent Drainage

## APPENDIX II

SOIL MOISTURE MEASUREMENTS as of February 1, 1974

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
NORTH PLATTE BASIN					
<u>North Platte River</u>					
Muddy Pass	11/14/73	11.1	8.5	7.7	6.6
Willow Pass	11/20/73	9.5	6.1	7.5	6.9
SOUTH PLATTE BASIN					
<u>Boulder Creek</u>					
Alpine Camp	10/19/73	6.9	3.1	3.1	3.8
<u>Big Thompson River</u>					
Beaver Dam	10/19/73	7.1	3.3	4.5	4.1
Guard Station	10/19/73	6.9	2.9	3.2	4.8
Two Mile	10/19/73	9.1	4.5	5.3	5.5
<u>Clear Creek</u>					
Clear Creek	11/26/73	9.5	7.1	7.1	6.8
Hoop Creek	10/18/73	4.9	2.4	2.8	2.9
<u>Cache La Poudre River</u>					
Feather	12/13/73	10.1	5.1	4.5	4.7
Laramie Road	10/17/73	12.4	7.4	6.9	7.8
<u>South Platte River</u>					
Hoosier Pass	9/27/73	7.8	5.5	5.5	4.9
Kenosha Pass	9/27/73	4.4	3.3	3.3	2.6
ARKANSAS BASIN					
<u>Arkansas River</u>					
Garfield	10/19/73	6.7	5.2	5.0	4.0
Leadville	10/18/73	7.8	4.1	4.0	4.1
Twin Lakes Tunnel	10/18/73	4.5	2.2	2.4	2.1
RIO GRANDE BASIN - COLORADO					
<u>Conejos River</u>					
Mogote	11/12/73	10.7	4.7	4.6	5.3
<u>Rio Grande</u>					
Bristol View	11/12/73	6.1	2.3	4.1	4.0
La Veta	10/29/73	11.9	6.4	6.9	7.6
RIO GRAND BASIN - NEW MEXICO					
<u>Rio Chama</u>					
Bateman	10/23/73	6.7	2.7	2.6	2.5
Chamita	10/23/73	8.0	4.4	1.5	2.6
<u>Rio Grande</u>					
Aqua Piedra	10/15/73	7.2	3.5	4.5	3.6
Big Tesuque	10/15/73	3.7	2.0	3.0	1.6
Rio En Medio	10/15/73	3.5	1.6	2.1	1.4
Taos Canyon	10/15/73	3.3	2.2	2.1	2.2
<u>Red River</u>					
Red River Summit	10/15/73	4.8	1.5	1.6	2.1

ALL PROFILES 4 FEET DEEP



## APPENDIX II

SOIL MOISTURE MEASUREMENTS as of February 1, 1974

STATION	DATE OF SURVEY	CAPACITY (INCHES)	THIS YEAR	LAST YEAR	AVG. ALL DATA
ANIMAS - SAN JUAN BASINS					
<u>Animas River</u>					
Cascade	10/25/73	9.1	3.8	7.2	6.0
Mineral Creek	12/10/73	5.7	2.9	3.2	3.4
Molas Lake	10/25/73	9.4	7.1	5.8	4.8
<u>Dolores River</u>					
Dolores	11/15/73	19.6	2.0	11.4	7.7
Lizard Head	11/05/73	11.8	1.2	4.1	6.9
Rico	11/05/73	13.8	1.4	9.3	9.6
GUNNISON BASIN					
<u>Gunnison River</u>					
King	10/19/73	3.3	2.6	2.2	2.0
COLORADO BASIN (Mainstem)					
<u>Blue River</u>					
Blue River	9/27/73	4.2	3.3	3.2	2.8
<u>Colorado River</u>					
Berthoud Pass	10/18/73	3.9	3.2	3.2	2.8
Gore	11/20/73	4.9	2.4	3.1	3.1
Grand Mesa	10/23/73	12.5	11.3	12.3	10.3
Ranch Creek	10/19/73	8.7	4.9	5.4	5.8
Vail	11/26/73	12.3	7.1	6.9	7.0
<u>Roaring Fork River</u>					
Placita	11/28/73	9.3	4.4	7.8	5.5
YAMPA BASIN					
<u>Yampa River</u>					
Hahn's Peak	11/14/73	19.0	8.6	12.1	8.4

ALL PROFILES 4 FEET DEEP

# LIST of COOPERATORS

The following organizations cooperate in snow surveys for the Colorado, Platte, Arkansas and Rio Grande watersheds. Many other organizations and individuals furnish valuable information for the snow survey reports. Their cooperation is gratefully acknowledged.

## STATE

Colorado State Engineer  
New Mexico State Engineer  
Nebraska State Engineer  
Colorado State University Experiment Station  
Rocky Mountain Forest and Range Experiment Station

## FEDERAL

Department of Agriculture

Forest Service  
Soil Conservation Service

Department of Interior

Bureau of Reclamation  
Geological Survey  
National Park Service  
Indian Service

Department of Commerce

NOAA, National Weather Service

Defence Department

Army Engineer Corps

Atomic Energy Commission

## INVESTOR OWNED UTILITIES

Colorado Public Service Company  
Public Service Company of New Mexico

## MUNICIPALITIES

City of Denver	City of Greeley
City of Boulder	City of Fort Collins

## WATER USERS ORGANIZATIONS

Arkansas Valley Ditch Association  
Colorado River Water Conservation District

## IRRIGATION PROJECTS

Farmers Reservoir and Irrigation Company  
San Luis Valley Irrigation District  
Santa Maria Reservoir Company  
Costilla Land Company  
Uncompahgre Valley Water Users' Association  
Twin Lakes Reservoir and Canal Company  
Trinchera Irrigation Co.

UNITED STATES DEPARTMENT OF AGRICULTURE  
SOIL CONSERVATION SERVICE

SNOW SURVEY UNIT  
P.O. Box 17107  
DENVER, COLORADO 80217

OFFICIAL BUSINESS  
PENALTY FOR PRIVATE USE, \$300

POSTAGE AND FEES PAID  
U. S. DEPARTMENT OF  
AGRICULTURE  
AGR-101



**FIRST CLASS MAIL**

## FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Furnishes the basic data  
necessary for forecasting  
water supply for irrigation,  
domestic and municipal water  
supply, hydro-electric power  
generation, navigation,  
mining and industry

*"The Conservation of Water begins  
with the Snow Survey"*